RD7100 Locator Specification

1. Product Summary

1.1 Product Descriptions:
- Precision Buried Utility Locator
- Precision Cable and Pipe Locator
- Locate System Receiver
- Utility Specific Precision Locator

1.2 Intended Use:
- Locating the position / path of buried pipes and cables
- Detecting and pinpointing insulation faults on buried pipes and cables

1.3 Standard Equipment:
- Locator
- Quickstart guide
- Mini USB 2.0 compliant data cable

2. Performance

2.1 Sensitivity:
- 6E-15 Tesla
- 5μA at 1 meter (33kHz)

2.2 Dynamic range:
- 140dB rms/√Hz

2.3 Selectivity:
- 120dB/Hz

2.4 Depth measurement precision:
- ± 3%

2.5 Locate accuracy:
- ± 5% of depth

2.6 Active Locate filter bandwidth:
- ± 3Hz, 0 < 1kHz
- ± 10Hz, ≥ 1kHz

2.7 Start-up time:
- Less than 1 second

2.8 Maximum depth readout:
- Metric: Cable / Pipe: 30m Sonde: 19.5m
- Imperial: Cable / Pipe: 98’ Sonde: 64’

3. Locate Functions

3.1 Active Locate Modes:
- Up to four, model dependent:
  • Peak
  • Peak+™ (choice of combined Peak & Guidance or Peak & Null)
  • Guidance
  • Null

3.2 Gain control:
- Guidance Mode: Automatic
- Other modes: Manual gain using “+” or “-” with one touch to return to center (50% of Full Scale)

3.3 Active locate frequencies:
- Up to seven:

<table>
<thead>
<tr>
<th>RD7100 MODEL</th>
<th>SL</th>
<th>DL</th>
<th>DLG</th>
<th>PL</th>
<th>PLG</th>
<th>TL</th>
<th>TLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active frequencies</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>
| 512Hz | | | | | | | | Available feature
| 640Hz | | | | | | | | Available feature
| 8kHz (8192Hz) | | | | | | | | Available feature
| 33kHz (32768Hz) | | | | | | | | Available feature
| 65kHz (65536Hz) | | | | | | | | Available feature
| 83kHz (83077Hz) | | | | | | | | Available feature
| 131kHz (131072Hz) | | | | | | | | Available feature
| 200kHz (200000Hz) | | | | | | | | Available feature

● Available feature
3.4 Sonde Frequencies: Up to four:

<table>
<thead>
<tr>
<th>RD7100 MODEL</th>
<th>SL</th>
<th>DL</th>
<th>DLG</th>
<th>PL</th>
<th>PLG</th>
<th>TL</th>
<th>TLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>512Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>640Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>8kHz (8192Hz)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>33kHz (32768Hz)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

3.5 Fault Find: Locate insulation sheath faults on pipes and cables to 10cm / 4” accuracy using the accessory A-Frame and a compatible transmitter.

<table>
<thead>
<tr>
<th>RD7100 MODEL</th>
<th>SL</th>
<th>DL</th>
<th>DLG</th>
<th>PL</th>
<th>PLG</th>
<th>TL</th>
<th>TLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>8kHz Fault Find</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.6 Passive Locate Modes:

<table>
<thead>
<tr>
<th>RD7100 MODEL</th>
<th>SL</th>
<th>DL</th>
<th>DLG</th>
<th>PL</th>
<th>PLG</th>
<th>TL</th>
<th>TLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Radio</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CPS (Cathodic Protection System)</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.7 Power Filters™ function: Switch out of Radiodetection’s sensitive Power Mode to locate on any of 5 individual mains harmonic frequencies. (RD7100PL and RD7100PLG models only).

<table>
<thead>
<tr>
<th>HARMONIC</th>
<th>50 Hz regions</th>
<th>60 Hz regions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>50 Hz</td>
<td>60 Hz</td>
</tr>
<tr>
<td>3rd</td>
<td>150 Hz</td>
<td>180 Hz</td>
</tr>
<tr>
<td>5th</td>
<td>250 Hz</td>
<td>300 Hz</td>
</tr>
<tr>
<td>7th</td>
<td>350 Hz</td>
<td>420 Hz</td>
</tr>
<tr>
<td>9th</td>
<td>450 Hz</td>
<td>540 Hz</td>
</tr>
</tbody>
</table>

3.8 Information displayed:

- Signal strength - moving bar graph and numeric value
- Mode indication (Peak, Null, Guidance, Peak+ with option of Guidance arrows or Null arrows)
- Line or Sonde locate type
- Proportional left/right indication
- Compass: full 360° line direction indicator
- Accessories in use indication
- Accessory specific custom screen
- Simultaneous depth and current readout (Line location)
- Depth readout (Sonde location)
- Gain level (in dB)
- Frequency selected
- Battery condition
- Speaker volume
- Operating frequency
- GPS satellites in view (where fitted)
- GPS status (where fitted)
- Configuration menu and submenus
- Software version
- Last calibration date
- Fault Find mode indicator (model dependent)
- StrikeAlert™ warning
- Overload warning

3.9 Audio output tones:

Power / Radio modes: Real Sound™ derived from detected electromagnetic signal
Peak / Peak+ modes: Synthesized audio tone proportional to signal strength
Guidance mode: Continuous tone when locator is to the left of target, intermittent tone when to the right of target
Null mode: Synthesized audio tone proportional to signal strength. Low pitch to left of target, high pitch to right of target
StrikeAlert audio warning: Audio feedback for menu navigation

● Available feature
### 3.10 Accessory locate functions:
- **Locator clamps:** Used to identify individual target cable(s) in a bundle or cabinet using signal strength read-out
- **Stethoscopes:** Used to identify individual target cable(s) in a bundle or confined space such as a cabinet using signal strength read-out

### 4. Locate Function Enhancements

<table>
<thead>
<tr>
<th>4.1 StrikeAlert:</th>
<th>Audio and visual warning when a cable or pipe less than 12’ / 30cm deep is detected. Operates in Active and Passive locating modes</th>
</tr>
</thead>
</table>
| 4.2 Dynamic Overload Protection™: | 40dB, automatic  
  • Automatically manages the system gain to compensate for strong signals e.g. from mains power or substations, to enable accurate locating |
| 4.3 Simultaneous depth and current readout: | Both utility depth and locate signal current are displayed simultaneously, giving the operator more information to help them to follow the target utility |
| 4.4 Fault Find: | Apply a Fault Find signal with a Tx-5 and Tx-10 transmitter, then use an accessory A-Frame to detect and pinpoint insulation faults (RD7100PL, PLG, TL, TLG models only)  
  Fault find accuracy:  
  Metric: 100mm  
  Imperial: 4’’ |
| 4.5 Peak+ mode: | Use the accurate Peak bargraph, and add either proportional Guidance arrows for faster locating, or Null arrows to check for the presence of distortion |

### 5. Configurability

| 5.1 Option selection: | All options can be enabled or disabled on the locator or using the RD Manager PC software |
| 5.2 Languages supported: | Fourteen: English, French, German, Dutch, Polish, Czech, Slovakian, Spanish, Portuguese, Swedish, Italian, Turkish, Russian, Hungarian |
| 5.3 Mains power network options: | 50 Hz or 60 Hz |
| 5.4 Mode selection: | All locate modes with the exception of Peak Mode can be individually enabled or disabled |
| 5.5 Active frequency selection: | All active frequencies available can be individually enabled or disabled |
| 5.6 Passive mode selection: | All passive modes can be individually enabled or disabled |
| 5.7 StrikeAlert: | Enable / disable |
| 5.8 Peak+ arrow selection: | Guidance arrows or Null arrows  
  Selected using the locator menu or with a long press of the antenna key |
| 5.9 GNSS (‘GPS’) settings: | Internal / Off / Reset. SBAS On / Off |
| 5.10 Time / date setting: | Correct or update locator real-time clock using the RD Manager PC software or GNSS signals (GPS/Logging enabled units) |

### 6. Connectivity

| 6.1 Wired connections: | Mini USB: Connect to a PC to configure and update locator, and to retrieve usage log  
  3.5mm Stereo jack: Connect wired headphones  
  Accessory port: Connect Radiodetection accessories |
7. Data capabilities and GNSS (‘GPS’)

7.1 Usage-logging and GNSS (‘GPS’):

<table>
<thead>
<tr>
<th>RD7100 MODEL</th>
<th>SL</th>
<th>DL</th>
<th>DLG</th>
<th>PL</th>
<th>PLG</th>
<th>TL</th>
<th>TLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usage-logging</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>On-board GNSS (‘GPS’)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

7.2 Usage-logging memory: 4 GB

7.3 Usage-logging capacity: Over 500 days, measured at 8 hours use per day

7.4 Usage-logging capture rate: 1/second

7.5 Usage parameters logged:
- Serial number
- Log reference and id
- Operating mode
- Locate frequency
- Sonde/line
- Signal strength
- Gain setting
- Depth
- Current
- Accessory in use
- Antenna mode
- Arrows readout
- Compass angle
- Overload status
- Dynamic Overload Protection Status
- Keys pressed
- Audio status
- Volume
- Menu in use
- Battery status
- User warnings status
- StrikeAlert status
- Fault find arrow
- SideStep status
- Language
- Depth units
- Power setting
- Compass setting
- Logging Units: Date and time
- With a GNSS fix:
  - Latitude
  - Longitude
  - Altitude
  - GNSS date and time
  - Horizontal Dilution
  - Geoid
  - DGPS Time and ID
  - Geoid Units
  - GNSS fix
  - Number of satellites
  - Altitude units
  - Time reference

8. Power options

8.1 Alkaline battery options: 2 × D-Cell (MN1300 / LR20) alkaline batteries (standard)

8.2 Rechargeable battery options:
- Custom Lithium-Ion (Li-ion) battery pack
- 2 × D-Cell (MN1300 / LR20) Nickel Metal Hydride (NiMH) batteries

8.3 Battery run-time (continuous):
- Li-ion pack: 35 hours
- 2 × Alkaline D-Cells: 13 hours

8.4 Battery chemistry identification:
- Lithium-Ion pack: Automatic sensing
- NiMH / Alkaline: Software switchable

8.5 Charging options (Li-ion pack):
- Mains charger: 100-250 Volts AC, 50/60 Hz
- Automotive charger: 12-24V DC

8.6 Charging time (Li-ion pack): 3 hours to 80% from empty with maintenance trickle charging thereafter

9. Physical Characteristics

9.1 Design: Ergonomic, balanced and lightweight design for comfortable use during extended surveys

9.2 Construction: Injection Molded ABS Plastic

9.3 Weight:
- With Lithium-Ion battery pack fitted:
  - Metric: 1.8kg
  - Imperial: 4.0lb
- With D-cell alkaline batteries fitted:
  - Metric: 1.9kg
  - Imperial: 4.2lb

9.4 Ingress Protection rating: IP65
  - Protected against dust ingress and jets of water applied from any direction

9.5 Display type: High contrast custom made monochrome LCD

9.6 Audio options:
- Built-in waterproofed speaker
- 3.5mm headphone socket

● Available feature
9.7 Operating temperature: Metric: -20 to 50°C
Imperial: 14 to 122°F

9.8 Storage temperature: Metric: -20 to 70°C
Imperial: 14 to 158°F

9.9 Unit dimensions: Metric: 648mm × 286mm × 125mm
Imperial: 25.5” × 11.3” × 4.9”

9.10 Shipping dimensions: Metric: 700mm x 260mm × 330mm
Imperial: 27.6” x 10.2” × 13”

9.11 Shipping weight (with batteries fitted): Metric: 2.6kg
Imperial: 5.7lb

10. RD Manager™ Supporting PC Software

10.1 Operating System Compatibility: Microsoft® Windows® XP, 7, 8, 8.1, 32 and 64-bit versions

10.2 Locator system compatibility: Radiodetection RD7100 and RD8100 Precision Locators, RD7000+ and RD8000 Cable, Pipe and Marker Locators

10.3 Functions:
- Locator configuration
- eCert™ remote calibration certification
- Factory calibration certificate retrieval
- Usage-logging data collation and export
- User account management
- CALSafe™ maintenance schedule enforcement
- Product registration for extended warranty
- Locator software update
- Contact Radiodetection
- Book a service

10.4 Data export formats: .kml for Google® Maps
.csv for database and spreadsheet applications
.xls / .xlsx for Microsoft® Excel®

10.5 KML data export options: Filter usage-logging and survey measurement points on Google® maps. Select data to be tagged. Customize icon type / color, label type / color, line type / color

11. Warranty and Maintenance

11.1 Manufacturer’s warranty duration: 3 years standard, on registration

11.2 Recommended calibration and maintenance schedule: Annual, or at the beginning / end of a lease period if earlier

11.3 eCert remote calibration:
- Remote calibration certification using an internet connection to Radiodetection
- Recommended schedule: annual, or at the beginning / end of a lease period

11.4 CALSafe™:
- Can be enabled to prevent the locator operating when beyond a defined calibration / maintenance schedule
- Disabled by default
- 30-day countdown to calibration due date

11.5 Enhanced Self-Test: On-unit
Applies test signals to locate circuitry to confirm correct operation, as well as the typical tests for screen and DSP functions.
Recommended schedule: weekly, or before each use.

11.6 Storage recommendation: Store in a clean and dry environment.
Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged

11.7 Cleaning:
Clean with a soft, moistened cloth.
Do not use
- Abrasive materials or chemicals
- High pressure jets of water
If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.
12. Certification and Compliance

12.1 Standards:

**Safety:**
- EN 61010-1:2010
- EN 61326-1:2013
- EN 300 330-2 (V1.5.1)
- EN 300 440-2 (V1.4.1)
- EN 301 489-3 (V1.6.1)
- EN 301 489-17 (V2.2.1)

**EMC:**
- EN 6068-2-64:2008 Test Fh
- ESTI EN 300 019-2-2:1999 (per table 6)
- EN 60068-2-27:2009 (Test Ea)
- ESTI EN 300 019-2-2:1999 (per table 6)

**Environmental:**
- EN 60529 1992 A2 2013
- EN 60068-2:64:2008 Test Fh
- ESTI EN 300 330-2 (V1.5.1)
- EN 300 440-2 (V1.4.1)
- EN 301 489-3 (V1.6.1)
- EN 301 489-17 (V2.2.1)

12.2 European directives:
- R&TTE Directive 1999/5/EC
- Low Voltage Directive: 2006/95/EC
- Declaration of conformity is available from www.radiodetection.com

12.3 Environmental:
- WEEE compliant
- ROHS compliant

12.4 Manufacturing:
- ISO 9001:2008

13. Compatible Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.1 Lithium-ion battery packs</td>
<td>Li-lon rechargeable battery mains kit (includes mains charger)</td>
<td>10/RX-MBATPACK-LION-K</td>
</tr>
<tr>
<td></td>
<td>Li-lon rechargeable battery pack (no charger)</td>
<td>10/RX-BATPACK-LION</td>
</tr>
<tr>
<td>13.2 Lithium-ion battery chargers</td>
<td>Li-lon automotive charger</td>
<td>10/RX-ACHARGER-LION</td>
</tr>
<tr>
<td></td>
<td>Li-lon mains charger</td>
<td>10/RX-MCHARGER-LION</td>
</tr>
<tr>
<td>13.3 Alkaline battery trays</td>
<td>2 × D Cell battery tray (MN1300 / LR20)</td>
<td>10/RX-2DCELL-TRAY</td>
</tr>
<tr>
<td>13.4 Transportation and storage accessories – For combined locator and transmitter</td>
<td>Soft Carry Bag</td>
<td>10/LOCATORBAG</td>
</tr>
<tr>
<td></td>
<td>Wheeled Flight Case</td>
<td>10/RD7K8KCASE</td>
</tr>
<tr>
<td></td>
<td>Hard Case</td>
<td>10/RD7K8KCASE-USA</td>
</tr>
<tr>
<td>13.5 Locator signal clamps – For identification and location of utilities</td>
<td>Metric: 50mm Locator Clamp</td>
<td>10/RX-CLAMP-50</td>
</tr>
<tr>
<td></td>
<td>Imperial: 2’ Locator Clamp</td>
<td>10/RX-CLAMP-2</td>
</tr>
<tr>
<td></td>
<td>Metric: 100mm Locator Clamp</td>
<td>10/RX-CLAMP-100</td>
</tr>
<tr>
<td></td>
<td>Imperial: 2’ Locator Clamp</td>
<td>10/RX-CLAMP-4</td>
</tr>
<tr>
<td></td>
<td>Metric: 130mm Locator Clamp</td>
<td>10/RX-CLAMP-130</td>
</tr>
<tr>
<td></td>
<td>Imperial: 5’ Locator Clamp</td>
<td>10/RX-CLAMP-5</td>
</tr>
<tr>
<td>13.6 Signal stethoscopes – To locate and identify individual utilities e.g. within walls, congested areas or when cables/utilities are in close proximity to each other</td>
<td>High Gain Stethoscope</td>
<td>10/RX-STETHOSCOPE-HG</td>
</tr>
<tr>
<td></td>
<td>Large Stethoscope</td>
<td>10/RX-STETHOSCOPE-L</td>
</tr>
<tr>
<td></td>
<td>Small Stethoscope</td>
<td>10/RX-STETHOSCOPE-S</td>
</tr>
</tbody>
</table>
### 13.7 Sondes

Battery powered signal transmitters for tracing or locating non-conductive utilities

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part description</th>
<th>Diameter</th>
<th>Range</th>
<th>Freq (Hz)</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6 Microsonde</td>
<td>6 ¼ 2 6½ 33k</td>
<td>6</td>
<td>2</td>
<td>6½</td>
<td>10/SONDE-MICRO-33</td>
</tr>
<tr>
<td>S9 Minisonde</td>
<td>9 3/8 4 13 33k</td>
<td>9</td>
<td>4</td>
<td>13</td>
<td>10/SONDE-MINI-33</td>
</tr>
<tr>
<td>S13 Super Small Sonde</td>
<td>13 ½ 2 6½ 33k</td>
<td>13</td>
<td>2</td>
<td>6½</td>
<td>10/SONDE-S13-33</td>
</tr>
<tr>
<td>S18 Small Sonde</td>
<td>18 ¾ 4 14 33k</td>
<td>18</td>
<td>4</td>
<td>14</td>
<td>10/SONDE-S18A-33</td>
</tr>
<tr>
<td>Standard C-Sonde</td>
<td>39 1½ 5 16½ 33k</td>
<td>39</td>
<td>5</td>
<td>16½</td>
<td>10/SONDE-STD-33</td>
</tr>
<tr>
<td>Slim Sonde</td>
<td>22 7/8 3.5 11½ 33k</td>
<td>22</td>
<td>3.5</td>
<td>11½</td>
<td>10/SONDE-SLIM-33</td>
</tr>
<tr>
<td>Sewer Sonde</td>
<td>64 2½ 8 26 33k</td>
<td>64</td>
<td>8</td>
<td>26</td>
<td>10/SONDE-SEWER-33</td>
</tr>
<tr>
<td>Super Sonde</td>
<td>64 2½ 15 50 33k</td>
<td>64</td>
<td>15</td>
<td>50</td>
<td>10/SONDE-SUPER-33</td>
</tr>
<tr>
<td>Flexi Sonde</td>
<td>23 7/8 6 20 512 33k</td>
<td>23</td>
<td>6</td>
<td>20</td>
<td>10/SONDE-BENDI-512</td>
</tr>
<tr>
<td>Standard C-Sonde</td>
<td>39 1½ 5 16½ 33k</td>
<td>39</td>
<td>5</td>
<td>16½</td>
<td>10/SONDE-STD-33</td>
</tr>
<tr>
<td>Slim Sonde</td>
<td>22 7/8 3.5 11½ 33k</td>
<td>22</td>
<td>3.5</td>
<td>11½</td>
<td>10/SONDE-SLIM-33</td>
</tr>
<tr>
<td>Sewer Sonde</td>
<td>64 2½ 8 26 33k</td>
<td>64</td>
<td>8</td>
<td>26</td>
<td>10/SONDE-SEWER-33</td>
</tr>
<tr>
<td>Super Sonde</td>
<td>64 2½ 15 50 33k</td>
<td>64</td>
<td>15</td>
<td>50</td>
<td>10/SONDE-SUPER-33</td>
</tr>
<tr>
<td>Flexi Sonde</td>
<td>23 7/8 6 20 512 33k</td>
<td>23</td>
<td>6</td>
<td>20</td>
<td>10/SONDE-BENDI-512</td>
</tr>
</tbody>
</table>

### 13.8 Submersible antennas:

- 640 / 512Hz Submersible DD Antenna
- 8kHz Submersible DD Antenna

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part description</th>
<th>Diameter</th>
<th>Range</th>
<th>Freq (Hz)</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlexiTrace 50m / 165'</td>
<td>FlexiTrace 50m / 165'</td>
<td>50</td>
<td>165</td>
<td>50</td>
<td>10/TRACE50-GB</td>
</tr>
<tr>
<td>FlexiTrace 80m / 260'</td>
<td>FlexiTrace 80m / 260'</td>
<td>80</td>
<td>260</td>
<td>80</td>
<td>10/TRACE80-GB</td>
</tr>
</tbody>
</table>

### 13.9 FlexiTrace™

- Use with a transmitter to trace small diameter pipes

### 13.10 Flexrods

- Fibreglass rod used for propelling Radiodetection sondes through pipes to trace the path and locate blockages

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part description</th>
<th>Diameter</th>
<th>Range</th>
<th>Freq (Hz)</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard C-Sonde</td>
<td>39 1½ 5 16½ 33k</td>
<td>39</td>
<td>5</td>
<td>16½</td>
<td>10/SONDE-STD-33</td>
</tr>
<tr>
<td>Slim Sonde</td>
<td>22 7/8 3.5 11½ 33k</td>
<td>22</td>
<td>3.5</td>
<td>11½</td>
<td>10/SONDE-SLIM-33</td>
</tr>
<tr>
<td>Sewer Sonde</td>
<td>64 2½ 8 26 33k</td>
<td>64</td>
<td>8</td>
<td>26</td>
<td>10/SONDE-SEWER-33</td>
</tr>
<tr>
<td>Super Sonde</td>
<td>64 2½ 15 50 33k</td>
<td>64</td>
<td>15</td>
<td>50</td>
<td>10/SONDE-SUPER-33</td>
</tr>
<tr>
<td>Flexi Sonde</td>
<td>23 7/8 6 20 512 33k</td>
<td>23</td>
<td>6</td>
<td>20</td>
<td>10/SONDE-BENDI-512</td>
</tr>
<tr>
<td>Standard C-Sonde</td>
<td>39 1½ 5 16½ 33k</td>
<td>39</td>
<td>5</td>
<td>16½</td>
<td>10/SONDE-STD-33</td>
</tr>
<tr>
<td>Slim Sonde</td>
<td>22 7/8 3.5 11½ 33k</td>
<td>22</td>
<td>3.5</td>
<td>11½</td>
<td>10/SONDE-SLIM-33</td>
</tr>
<tr>
<td>Sewer Sonde</td>
<td>64 2½ 8 26 33k</td>
<td>64</td>
<td>8</td>
<td>26</td>
<td>10/SONDE-SEWER-33</td>
</tr>
<tr>
<td>Super Sonde</td>
<td>64 2½ 15 50 33k</td>
<td>64</td>
<td>15</td>
<td>50</td>
<td>10/SONDE-SUPER-33</td>
</tr>
<tr>
<td>Flexi Sonde</td>
<td>23 7/8 6 20 512 33k</td>
<td>23</td>
<td>6</td>
<td>20</td>
<td>10/SONDE-BENDI-512</td>
</tr>
</tbody>
</table>

### 13.11 A-Frame

- Used for locating sheath faults on cables and coating defects on pipelines

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part description</th>
<th>Diameter</th>
<th>Range</th>
<th>Freq (Hz)</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Frame</td>
<td>A-Frame (includes A-Frame Lead)</td>
<td>160</td>
<td>4.5</td>
<td>3/16</td>
<td>10/FLEXRODF50-4.5</td>
</tr>
<tr>
<td>A-Frame Bag</td>
<td>A-Frame Bag</td>
<td>260</td>
<td>4.5</td>
<td>3/16</td>
<td>10/FLEXRODF80-4.5</td>
</tr>
<tr>
<td>A-Frame</td>
<td>A-Frame (includes A-Frame Lead)</td>
<td>160</td>
<td>7</td>
<td>¼</td>
<td>10/FLEXRODF50-7</td>
</tr>
<tr>
<td>A-Frame Bag</td>
<td>A-Frame Bag</td>
<td>320</td>
<td>7</td>
<td>¼</td>
<td>10/FLEXRODF100-7</td>
</tr>
<tr>
<td>A-Frame</td>
<td>A-Frame (includes A-Frame Lead)</td>
<td>485</td>
<td>7</td>
<td>¼</td>
<td>10/FLEXRODF150-7</td>
</tr>
<tr>
<td>A-Frame Bag</td>
<td>A-Frame Bag</td>
<td>195</td>
<td>9</td>
<td>3/8</td>
<td>10/FLEXRODF60-9</td>
</tr>
<tr>
<td>A-Frame</td>
<td>A-Frame (includes A-Frame Lead)</td>
<td>390</td>
<td>9</td>
<td>3/8</td>
<td>10/FLEXRODF120-9</td>
</tr>
</tbody>
</table>

### 13.12 Headphones

- Recommended for use in noisy environments

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/RX-HEADPHONES</td>
<td>Headphones</td>
</tr>
</tbody>
</table>

### 13.13 Warning Triangle

- Three sided folding warning sign

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/WARNING-TRIANGLE</td>
<td>Warning Triangle</td>
</tr>
</tbody>
</table>

### 13.14 Calibration Certificates

- Locator Calibration Certificate, per unit (request with initial locator order)
- eCert™ Calibration Credit

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>97/RX-CALCERT</td>
<td>Calibration Certificate</td>
</tr>
<tr>
<td>10/RX-ECERT</td>
<td>eCert™ Calibration Credit</td>
</tr>
</tbody>
</table>

---

All specification are measured in test conditions, at 21°C / 70°F, and fitted with 2 × good quality alkaline batteries unless otherwise noted.

1 Based on volumetric testing at a known fixed depth. True depth accuracy depends on factors such as ground composition, utility characteristics and the locate frequency / signal strength employed. Always follow local safe digging guidelines.

2 The RD7100 will locate to greater depths in the right conditions, but depth accuracy will be compromised. Depth measurement will not be displayed beyond these depths.

3 To provide repeatable measurements, run-time is measured with GPS functions switched to ‘off’.

4 Water projected by a nozzle at a pressure of 30kPa / 0.3 bar / 4.4 psi in accordance with BS EN 60529 1992 A2 2013

5 At very low temperatures, battery life will be degraded and measurement precision may be reduced.